

1 **In the Claims**

2 Claims 1-13, 41-50, 82-92, 98-101, and 103 remain in the Application and
3 are listed below.

4 Claims 1, 3, 5, 41-50, 82-92, and 98 are previously presented.

5 Claims 14-40, 51-81, 93-97, 102, and 104-105 are previously canceled.

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7 1. **(Previously Presented)** An architecture comprising:
8 a table appearance manager to manage how a table appears in a document,
9 the table having a cell capable of being interpreted as primarily word-processing
10 based or as primarily spreadsheet based; and
11 a spreadsheet functionality manager to manage spreadsheet functions for
12 the table, the functions comprising treating an enter key typed into the cell as
13 meaning a return command if the cell is interpreted as primarily word-processing
14 based or as meaning a command to navigate to another cell if interpreted as
15 primarily spreadsheet-based,
16 wherein the table appearance manager and the spreadsheet functionality
17 manager are architecturally separate system managers of the architecture.

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19 2. **(Original)** The architecture of claim 1, wherein the document is a
20 markup document.

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22 3. **(Previously Presented)** The architecture of claim 1, wherein the
23 table appearance manager provides a formula edit box to permit the user to enter a
24 formula into the cell or another cell of the table.
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1 4. **(Original)** The architecture of claim 1, wherein the table appearance
2 manager comprises:

- 3 a table component to support editing functionality of the table; and
4 a spreadsheet component to receive data and formulas input into the table.
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6 5. **(Previously Presented)** The architecture of claim 1, wherein the
7 spreadsheet functionality manager comprises:

- 8 a cell table to maintain data values and formulas used in the table; and
9 a format table to maintain formatting information used in the table, the
10 formatting information comprising whether or not the cell is interpreted as
11 primarily word-processing based or as primarily spreadsheet based.
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13 6. **(Original)** The architecture of claim 1, wherein the spreadsheet
14 functionality manager comprises:

- 15 a cell table to maintain data values and formulas used in the table; and
16 a recalculation engine to recalculate the formulas following a change to a
17 data value or formula in the cell table.
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19 7. **(Original)** The architecture of claim 1, wherein the spreadsheet
20 functionality manager comprises:

- 21 a cell table to maintain data values and formulas used in the table;
22 a delay parser to parse input for the cell table as needed; and
23 a recalculation engine to recalculate the formulas following a change to a
24 data value or formula in the cell table.
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1 8. **(Original)** The architecture of claim 1, wherein multiple tables
2 appear in one or more documents, and the spreadsheet functionality manager is
3 configured to maintain data and formulas for the multiple tables.

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5 9. **(Original)** The architecture of claim 1, wherein multiple tables
6 appear in one or more documents, and the spreadsheet functionality manager is
7 configured to track references made from one table to another table.

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9 10. **(Original)** The architecture of claim 1, wherein multiple tables
10 appear in one or more documents, and the spreadsheet functionality manager is
11 configured to maintain data and formulas for the multiple tables and track
12 references made from one table to another table, the spreadsheet functionality
13 being further configured to update any data and formulas in the multiple tables
14 that is affected by a change made to one of the tables.

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16 11. **(Original)** The architecture of claim 1, wherein multiple tables
17 appear in one or more documents, and wherein:

18 the table appearance manager comprises multiple spreadsheet components
19 so that there is one spreadsheet component for an associated table, each
20 spreadsheet component being configured to capture data and formulas input into
21 the associated table; and

22 the spreadsheet functionality manager comprises multiple grid components
23 so that there is one grid component for an associated table and an associated
24 spreadsheet component, each grid component maintaining the data, the formulas,
25 and formatting used in the associated table.

1 12. **(Original)** The architecture of claim 1, further comprising a
2 document renderer to render the document.

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4 13. **(Original)** The architecture of claim 1, wherein the table appearance
5 manager and the spreadsheet functionality manager reside on different computers.

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7 14-40. **(Canceled).**
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1 41. **(Previously Presented)** One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises:

4 a table appearance manager to manage how a table appears in a document;
5 a spreadsheet functionality manager to manage spreadsheet functions for
6 the table; and

7 first and second tables renderable as part of a common document, the first
8 table having a first cell capable of being interpreted as primarily word-processing
9 based or as primarily spreadsheet-based and the second table having a second cell
10 capable of being interpreted as primarily word-processing based or as primarily
11 spreadsheet-based;

12 a first spreadsheet component to receive at least one of data or a first
13 formula entered into the first cell in the first table;

14 a first grid component to hold the data or first formula in association with
15 the first cell of the first table;

16 a second spreadsheet component to receive at least a second formula
17 entered into a second cell in the second table, the second formula referencing the
18 first cell in the first table; and

19 a second grid component to hold the second formula in association with the
20 second cell of the second table,

21 wherein the table appearance manager and the spreadsheet functionality
22 manager are architecturally separate system managers of the architecture.

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24 42. **(Previously Presented)** The one or more computer-readable media
25 of claim 41, wherein the first table is nested within the second table.

1 43. **(Previously Presented)** The one or more computer-readable media
2 of claim 41, wherein the second spreadsheet component presents a formula edit
3 box to allow user entry of the second formula.

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5 44. **(Previously Presented)** The one or more computer-readable media
6 of claim 41, wherein the second spreadsheet component facilitates reference
7 editing to the first cell in the first table.

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9 45. **(Previously Presented)** The one or more computer-readable media
10 of claim 41, wherein the first table is nested within the second table and the second
11 spreadsheet component facilitates reference editing to the first cell in the first
12 table.

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14 46. **(Previously Presented)** The one or more computer-readable media
15 of claim 41, further comprising a recalculation engine to recalculate the second
16 formula held in the second grid component in response to a change of the first cell
17 in the first grid component.

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19 47. **(Previously Presented)** The one or more computer-readable media
20 of claim 46, wherein the second table is updated to reflect a result produced by the
21 recalculation engine.

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23 48. **(Previously Presented)** The one or more computer-readable media
24 of claim 46, wherein the first and second tables are updated to reflect a result
25 produced by the recalculation engine.

1 49. **(Previously Presented)** The one or more computer-readable media
2 of claim 46, wherein the first table is nested within a particular cell of the second
3 table, the particular cell containing a non-calculation formula that is not evaluated
4 by the recalculation engine but which defines a dependency between the two cells.

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6 50. **(Previously Presented)** The one or more computer-readable media
7 of claim 41, further comprising:

8 a free floating field renderable in the document but separately from the first
9 and second tables;

10 a third spreadsheet component to receive a third formula entered into the
11 free floating field; and

12 a third grid component to hold the third formula.

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14 51-81. **(Canceled).**
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1 82. **(Previously Presented)** One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises:

4 a table appearance manager to manage how a table appears in a document,
5 the table having a cell capable of being interpreted as primarily word-processing
6 based or as primarily spreadsheet-based; and

7 a spreadsheet functionality manager to manage spreadsheet functions for
8 the table, the functions comprising treating an enter key typed into the cell as
9 meaning a return command if the cell is interpreted as primarily word-processing
10 based or as meaning a command to navigate to another cell if interpreted as
11 primarily spreadsheet based,

12 wherein the table appearance manager and the spreadsheet functionality
13 manager are architecturally separate system managers of the architecture, and

14 wherein the table appearance manager and the spreadsheet functionality
15 manager are configured for:

16 creating a first spreadsheet table for display in a document; and

17 creating a second spreadsheet table for display in the document, the
18 second spreadsheet table being nested within the first spreadsheet table when
19 displayed.

1 83. **(Previously Presented)** A data structure stored on the one or more
2 computer-readable media of claim 82, the data structure being produced as a result
3 of operation of the table appearance manager and the spreadsheet functionality
4 manager.

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6 84. **(Previously Presented)** A computer configured for execution of the
7 one or more computer-readable media of claim 82.

1 85. **(Previously Presented)** One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises:

4 a table appearance manager to manage how a table appears in a document,
5 the table having a cell capable of being interpreted as primarily word-processing
6 based or as primarily spreadsheet-based;

7 a spreadsheet functionality manager to manage spreadsheet functions for
8 the table, the functions comprising treating an enter key typed into the cell as
9 meaning a return command if the cell is interpreted as primarily word-processing
10 based or as meaning a command to navigate to another cell if interpreted as
11 primarily spreadsheet-based; and

12 wherein the table appearance manager and the spreadsheet functionality
13 manager are configured for:

14 integrating text and a spreadsheet table within a common document,
15 the spreadsheet table supporting spreadsheet functionality comprising an
16 enter key typed into the cell as meaning a command to navigate to another
17 cell;

18 formatting the text according to a particular format; and

19 formatting cells in the spreadsheet table according to the particular
20 format.

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22 86. **(Previously Presented)** A computer configured for execution of the
23 one or more computer-readable media of claim 85.
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1 87. **(Previously Presented)** One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises:

4 a table appearance manager to manage how a table appears in a document,
5 the table having a cell capable of being interpreted as primarily word-processing
6 based or as primarily spreadsheet-based;

7 a spreadsheet functionality manager to manage spreadsheet functions for
8 the table, the functions comprising treating an enter key typed into the cell as
9 meaning a return command if the cell is interpreted as primarily word-processing
10 based or as meaning a command to navigate to another cell if interpreted as
11 primarily spreadsheet-based; and

12 wherein the table appearance manager and the spreadsheet functionality
13 manager are configured for:

14 integrating text and a spreadsheet table within a common document,
15 the spreadsheet table supporting spreadsheet functionality comprising treating an
16 enter key typed into the cell as meaning a command to navigate to another cell;
17 and

18 evaluating the text and the spreadsheet table concurrently for
19 possible spelling or grammatical errors.

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21 88. **(Previously Presented)** A computer configured for execution of the
22 one or more computer-readable media of claim 87.
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1 89. **(Previously Presented)** One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises:

4 a table appearance manager to manage how a table appears in a document,
5 the table having a cell capable of being interpreted as primarily word-processing
6 based or as primarily spreadsheet-based;

7 a spreadsheet functionality manager to manage spreadsheet functions for
8 the table, the functions comprising treating an enter key typed into the cell as
9 meaning a return command if the cell is interpreted as primarily word-processing
10 based or as meaning a command to navigate to another cell if interpreted as
11 primarily spreadsheet-based; and

12 wherein the table appearance manager and the spreadsheet functionality
13 manager are configured for:

14 integrating text and a spreadsheet table within a common document,
15 the spreadsheet table supporting spreadsheet functionality comprising treating an
16 enter key typed into the cell as meaning a command to navigate to another cell;

17 enabling a user to select a control function to modify or evaluate an
18 aspect of the document; and

19 applying the control function across both the text and the
20 spreadsheet table.

1 90. **(Previously Presented)** The one or more computer-readable media
2 of claim 89, wherein the control function is selected from a group of functions
3 including formatting, spell checking, grammar checking, find, find and replace,
4 auto-correct, applying document themes, inserting lists, images, drawings, charts,
5 hyperlinks, automatic detection of hyperlinks, and automatic detection of lists.

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7 91. **(Previously Presented)** The one or more computer-readable media
8 of claim 89, wherein the control function is any text feature that can be applied to
9 the text and the applying comprises applying that text feature to the spreadsheet
10 table.

1 92. **(Previously Presented)** One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises:

4 a table appearance manager to manage how a table appears in a document,
5 the table having a cell capable of being interpreted as primarily word-processing
6 based or as primarily spreadsheet-based;

7 a spreadsheet functionality manager to manage spreadsheet functions for
8 the table, the functions comprising treating an enter key typed into the cell as
9 meaning a return command if the cell is interpreted as primarily word-processing
10 based or as meaning a command to navigate to another cell if interpreted as
11 primarily spreadsheet-based; and

12 wherein the table appearance manager and the spreadsheet functionality
13 manager are configured for:

14 integrating text and a first spreadsheet table within a common
15 document, the spreadsheet table supporting spreadsheet functionality comprising
16 treating an enter key typed into the cell as meaning a command to navigate to
17 another cell;

18 creating a second spreadsheet table by cutting or copying all or part
19 of the first spreadsheet table and pasting said all or part of the first spreadsheet
20 table; and

21 updating any references to cells in the first spreadsheet table or the
22 second spreadsheet table to reflect the newly created second spreadsheet table.

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24 93-97. **(Canceled).**
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1 98. **(Previously Presented)** A computer comprising:
2 a memory;
3 a processing unit coupled to the memory; and
4 an architecture stored in the memory and executable on the processing unit
5 to construct and display a document having a table with integrated spreadsheet
6 functionality, the architecture comprising:
7 a table appearance manager to manage how a table appears in a
8 document, the table having a cell capable of being interpreted as primarily word-
9 processing based or as primarily spreadsheet-based; and
10 a spreadsheet functionality manager to manage spreadsheet functions
11 for the table, the functions comprising treating an enter key typed into the cell as
12 meaning a return command if the cell is interpreted as primarily word-processing
13 based or as meaning a command to navigate to another cell if interpreted as
14 primarily spreadsheet-based,
15 wherein the table appearance manager and the spreadsheet functionality
16 manager are architecturally separate system managers of the architecture.

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18 99. **(Original)** A computer as recited in claim 98, wherein the
19 architecture constructs multiple tables within the document, at least one table
20 containing a reference to contents in another table.
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1 100. **(Original)** A computer as recited in claim 98, wherein the
2 architecture constructs multiple tables within the document, the tables containing
3 formulas referencing contents of other tables, whereupon modification of content
4 in one of the tables, the architecture automatically recalculates all formulas in the
5 tables in the document.

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7 101. **(Original)** A computer as recited in claim 98, wherein the
8 architecture constructs a free floating field in the document, the free floating field
9 containing a formula referencing content in the table, whereupon modification of
10 content in the table, the architecture automatically recalculates the formulas in the
11 free floating field.

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13 102. **(Canceled).**

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15 103. **(Original)** A computer as recited in claim 98, wherein the
16 architecture comprises a complementary pair of spreadsheet and grid objects for
17 the table, the spreadsheet object facilitating user entry of content into the table and
18 the grid object holding the content for the table.

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20 104-105. **(Canceled).**